

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

20 JUN 2005

(43) International Publication Date
8 July 2004 (08.07.2004)

PCT

(10) International Publication Number
WO 2004/057048 A1

(51) International Patent Classification⁷: C22C 38/00,
C21D 8/00

Bagattenstraat 83, B-9000 Gent (BE). DE COOMAN,
Bruno [NL/NL]; Oostkade 23, NL-4551 CM San Van
Gent (NL).

(21) International Application Number:
PCT/BE2003/000188

(74) Agents: VAN MALDEREN, Joëlle et al.; Office Van
Malderen, Place Reine Fabiola 6/1, B-1083 Brussels (BE).

(22) International Filing Date:
6 November 2003 (06.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02447265.6 20 December 2002 (20.12.2002) EP

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (*for all designated States except US*): SIDMAR
N.V. [BE/BE]; John Kennedylaan, 51, B-9042 Gent (BE).

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): ANTONISSEN,
Joachim [BE/BE]; Oosthoek 101, B-9968 Oosteklo
(BE). BARBE, Liesbeth [BE/BE]; Landuitstraat 156,
B-9470 Denderleeuw (BE). DE MEYER, Marijke
[BE/BE]; Emeric De Bruynelaan 28, B-9940 Sleidinge
(BE). TOSAL-MARTINEZ, Lucia [DE/DE]; Kaiser-
swertherstr. 21, 40477 Dusseldorf (DE). CLAESSENS,
Serge [BE/BE]; Knyffstraat 45, B-2100 Deurne (BE).
VANDEPUTTE, Sven [BE/BE]; Pullaarsesteenweg 128,
B-2870 Ruisbroek (BE). JACOBS, Sigrid [BE/BE];

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: A STEEL COMPOSITION FOR THE PRODUCTION OF COLD ROLLED MULTIPHASE STEEL PRODUCTS

(57) **Abstract:** The present invention is related to a steel composition intended to be used in a process comprising a cold rolling step, for the production of uncoated, electro-galvanised or hot dip galvanised TRIP steel products, said composition being characterised by a specific addition of phosphorus. The latter is added in order to reach the desired mechanical properties (high tensile strength in combination with high elongation) while keeping a good weldability by sufficiently reducing the carbon content. The invention is further related to a process for producing a steel product, and to said steel product obtained, said product having the composition of the invention.

WO 2004/057048 A1